

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

THOMAS et al.

Serial No.: 10/817,616

Filed: April 2, 2004

Atty. File No.: 3791-30

For: "APPARATUS AND PROCESS  
FOR PREPARING SORBENTS  
FOR MERCURY CONTROL AT  
THE POINT OF USE"



Group Art Unit: 1724

Examiner: Lawrence, Jr., F.

Confirmation No.: 2481

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT

<p>CERTIFICATE OF MAILING</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450</p> <p>ON <u>4/24/06</u></p> <p>SHERIDAN ROSS P.C.</p> <p>BY: <u>Christine Jacquot</u></p>
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Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

04/28/2006 SDENB0B1 00000029 191970 10817616  
01 FC:1806 180.00 DA

Dear Sir:

The references cited on attached Form PTO-1449 are being called to the attention of the Examiner.

- ☒ Copies of the cited non-patent and/or foreign references are enclosed herewith.
- ☒ Copies of the cited U.S. patents/patent application publications are not enclosed in accordance with 37 C.F.R. § 1.98(a).
- ☒ To the best of applicants' belief, the pertinence of the foreign-language references are believed to be summarized in the attached English abstracts and in the figures, although applicants do not necessarily vouch for the accuracy of the translation.

Submission of the above information is not intended as an admission that any item is citable under the statutes or rules to support a rejection, that any item disclosed represents analogous art, or that those skilled in the art would refer to or recognize the pertinence of any reference without the benefit of hindsight, nor should an inference be drawn as to the pertinence of the references based on the order in which they are presented. Submission of this statement should not be taken as an indication that a search has been conducted, or that no better art exists.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application and the references made of record therein.

### FEES

<input type="checkbox"/>	<p><b>37 CFR 1.97(b):</b> No fee is believed due in connection with this submission, because the information disclosure statement submitted herewith is satisfies one of the following conditions ("X" indicates satisfaction):</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d), or</li> <li><input type="checkbox"/> Within three months of the date of entry into the national stage of an international application as set forth in 37 CFR 1.491 or</li> <li><input type="checkbox"/> Before the mailing date of a first Office Action on the merits, or</li> <li><input type="checkbox"/> Before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114.</li> </ul> <p>Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</p>
<input checked="" type="checkbox"/>	<p><b>37 CFR 1.97(c):</b> The information disclosure statement transmitted herewith is being filed after all the above conditions (37 CFR 1.97(b)), but before the mailing date of one of the following conditions:</p> <ul style="list-style-type: none"> <li>(1) a final action under 37 C.F.R. 1.113 or</li> <li>(2) a notice of allowance under 37 C.F.R. 1.311, or</li> <li>(3) an action that otherwise closes prosecution in the application.</li> </ul> <p>This Information Disclosure Statement is accompanied by:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> A Certification (below) as specified by 37 C.F.R. 1.97(e). Although no fee is believed due, if any fee is deemed due in connection with this submission, please charge such fee to Deposit Account 19-1970.</li> </ul> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Please charge Deposit Account 19-1970 in the amount of \$180.00 for the fee set forth in 37 C.F.R. 1.17(p) for submission of an information disclosure statement. Please credit any overpayment or charge any underpayment to Deposit Account 19-1970.</li> </ul>
<input type="checkbox"/>	<p><b>37 CFR 1.97(d):</b> This Information Disclosure Statement is being submitted after the period specified in 37 CFR 1.97(c).</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> This information Disclosure Statement includes a Certification (below) as specified by 37 C.F.R. 1.97(e)</li> </ul> <p style="text-align: center;">AND</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Applicants hereby requests consideration of the reference(s) disclosed herein. Please charge Deposit Account 19-1970 in the amount of \$180.00 under 37 C.F.R. 1.17(p). Please credit any overpayment or charge any underpayment to Deposit Account 19-1970. Election to pay the fee should not be taken as an indication that applicant(s) cannot execute a certification.</li> </ul>

**Certification (37 C.F.R. 1.97(e))**  
(Applicable only if checked)

☐ The undersigned certifies that:

☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(1).

☐ A copy of the communication from the foreign patent office is enclosed.

OR

☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement. 37 C.F.R. 1.97(e)(2).

Respectfully submitted,

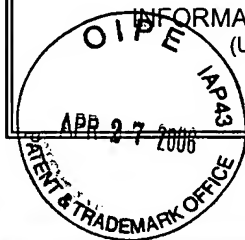
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Date: Apr. 1 24, 2006

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
3791-30SERIAL NO.  
10/817,616INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)APPLICANT  
THOMAS et al.FILING DATE  
April 2, 2004GROUP ART  
1724

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROP.
	AA	3,194,629	07/13/1965	Dreibelbis et al.	423	210	
	AB	3,677,696	07/18/1972	P. Bryk, et al.	23	2	
	AC	3,873,581	03/25/1975	Fitzpatrick et al.	552	234	
	AD	3,961,031	06/01/1976	Yasui, et al.	423	210	
	AE	4,069,140	10/17/1978	Wunderlich	208	251H	
	AF	4,196,173	04/01/1980	deJong et al.	423	210	
	AG	4,233,274	11/11/1980	Allgulin	423	210	
	AH	4,273,747	06/16/1981	Rasmussen	423	210	
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	AJ	4,693,731	09/15/1987	Tarakad, et al.	55	72	
	AK	4,764,355	08/16/1998	Romey et al.	423	244	
	AL	4,889,698	12/26/1989	Moller, et al.	423	210	
	AM	4,911,825	03/27/1990	Roussel et al.	208	251R	
	AN	4,917,862	04/17/1990	Kraw et al.	422	4	
	AO	4,962,276	10/09/1990	Yan	585	867	
	AP	4,985,389	01/15/1991	Audeh	502	34	
	AQ	5,080,799	01/14/1992	Yan	210	661	
	AR	5,173,286	12/22/1992	Audhe et al.	423	566.1	
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	AT	5,304,693	10/08/1998	Seaman et al.	210	724	
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EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 3791-30	SERIAL NO. 10/817,616
	APPLICANT THOMAS et al.	
	FILING DATE April 2, 2004	GROUP ART 1724

	AV	5,304,693	04/19/1994	Boitiaux et al.	585	648	
	AW	5,811,066	09/22/1998	Winkler, et al.	423	210	
	AX	5,846,434	12/08/1998	Seaman, et al.	210	724	
	AY	5,965,095	10/12/1999	Owens, et al.	423	210	
	AZ	6,090,355	07/18/2000	Winkler, et al.	423	210	
	BA	6,214,304 B1	04/10/2001	Rosenthal, et al.	423	210	
	BB	6,284,208 B1	09/04/2001	Thomassen	423	210	
	BC	6,294,139 B1	09/25/2001	Vicard, et al.	423	210	
	BD	6,447,740	09/10/2002	Caldwell, et al.	423	210	
	BE	6,521,021	02/18/2003	Pennline, et al.	95	134	
	BF	6,528,030	03/04/2003	Madden, et al.	423	210	
	BG	6,534,024 B2	03/18/2003	Honjo, et al.	423	210	
	BH	6,719,828	04/13/2004	Lovell, et al.	95	134	
	BI	6,818,043	11/16/2004	Chang, et al.	95	37	
	BJ	6,881,243	04/19/2005	Khitrik, et al.	95	188	
	BK	6,953,494	10/11/2005	Nelson, Jr.	95	134	
	BL	2003/0099585	05/29/2003	Allgulin	423	210	
	BM	2003/0206843	11/06/2003	Nelson, Jr.	423	210	
	BN	2001/0007647	07/12/2001	Honjo, et al.	423	210	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO

EXAMINER	DATE CONSIDERED
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	BO	JP 10-216476	08/18/1998	Japan	B01D	053/64	x	
	BP	DE 43 17 756 A1	01/12/1995	Germany	B01D	053/34		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	BR	"Control Technology; Full-Scale Testing of Mercury Control Via Sorbent Injection", Available at <a href="http://www.netl.doe.gov/coal/EWR/mercury/control-tech/comp-design.html">www.netl.doe.gov/coal/EWR/mercury/control-tech/comp-design.html</a> , July 28, 2005, 2 pages.
	BS	Durham, Micheal, "Field Test Program to Develop Comprehensive Design, Operating and Cost Data for Mercury Control", DOE/NETL's Mercury Control Technology R&D Program Review, August 12, 2003, 48 pages.
	BT	Durham, Michael, "Full-Scale Evaluation of Mercury Control by Injecting Activated Carbon Upstream of ESPs", September 2003, 15 pages.
	BU	Durham, Michael, "Tools for Planning and Implementing Mercury Control Technology", American Coal Council, 2003, 3 Pages.

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